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AMENDMENTS TO THE SPECIFICATION:

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1. Please replace all the paragraphs under the Section "Cross References to Related Applications" with the following paragraphs:

The following U.S. Patents and applications are incorporated by reference:

This application is related to co-pending application, U.S. Serial No. 09/951,996 entitled "Method of Capturing A Physically Consistent Mirrored Snapshot of an Online Database."

This application is also related to co-pending application, U.S. Serial No. 10/280,717 entitled "System and Method For Database Recovery Using A Mirrored Snapshot Of An Online Database which issued as U.S. 6983295."

This application is also related to co-pending application, U.S. Serial No. 10/280,742 entitled "Method For Gloning A Remote Database Backup Using A Mirrored Database Snapshot".

This application is also related to co-pending application, U.S. Serial No. 10/235,763 entitled "Method For Capturing A Physically Consistent Mirrored Snapshot Of An Online Database From A Remote Database Backup System", which issued as U.S. 6957221.

2. Please replace the paragraph that begins on page 2, line 10, with the following paragraph:

The process of making a database unavailable for update activity is counter-productive to the goal of maintaining the database availability for 24 hours a day, 7 days a week and 365 days a year. Currently, with the present types of database

systems, a database system must be taken off-line (QUIESCE) to create a physically consistent snapshot copy for the purpose of the offloading of database processing in a mirrored disk environment.

3. Please replace the paragraph that begins on page 3, line 8, with the following paragraph:

As previously stated, the process of making the database unavailable for update activity is counter-productive to the goal of maintaining 24 hour, 7 day a week, 365 days a year of database availability. Thus, if a physically consistent database copy could be created from a primary on-line database system, the database availability will still be maintained while the system performance is improved when a physically mirrored snapshot is used to off-load the processing.

4. Please replace the paragraph that begins on page 3, line 28, with the following paragraph:

This United States Patent 6,044,444, provides a method of mirroring physical storage in order to create a duplicate copy, described as a "physically mirrored snapshot". However, this U.S. Patent to Ofek of EMC Corporation does not teach or show any method that provides full integrity checking of physical consistency in the duplicate copy, nor does this patent teach or show any method for verification of the duplicate copy.

5. Please replace the paragraph that begins on page 4, line 23, with the following paragraph:

When the VERIFY option is requested with the DEDIRECTORY statement, any errors will be reported and handled in a manner consistent with existing reports and handling behavior

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when performing a DUMP with an indication: "**WARNING: THIS ROW LOCKED OUT (NOT ACCESSIBLE)." When all rows of all structures have been completed, a completion message is reported. errors were encountered, then the message "VERIFY OPTION IS COMPLETE, NO ROWS LOCKED OUT" will be given. If errors were encountered, the message "VERIFY OPTION IS COMPLETE, # ROWS LOCKED OUT" will be given, where the "#" will be replaces. replaced by the number of rows encountered with the CHECKSUM or ADDRESSCHECK integrity errors. If the VERIFY option is used with the RECOVER command and integrity errors were found, then the following message is given and the RECOVERY activity will not start; "AX OK TO CONTINUE, AX QUIT TO STOP". RECOVER activity will either continue or stop based on the given response to the message.

6. Please replace the paragraph that begins on page 6, line 2, with the following paragraph:

The object of this invention is to provide a feature to verify a database copy marked as being in a state of QUIESCE.

This will prevent the waste of time during subsequent recovery operations if inaccurate data has been allowed to accumulate.

7. Please replace the paragraph that begins on page 6, line 5, with the following paragraph:

In order to accomplish this objective, a database system process is provided and referred to as "QUIESCE" and according to the presently-described system, this consists of a database utility command that communicates a "QUIESCE" request to an on-line database. The method of the present invention verifies whether or not a database copy has been marked as being in a state of QUIESCE. When the verify option is specified for

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either a DBDIRECTORY statement or a RECOVER statement, a verification process will be initiated to perform CHECKSUM and ADDRESSCHECK on the selected structures of the database copy. This activity will be performed only if the database identified with the <db statement> specifies a database copy that is marked as being in a state of QUIESCE. This verification is being provided in order to allow verification of a database copy in a state of QUIESCE that is being used as a current source or will be a future recovery source.

8. Please replace the paragraph that begins on page 24, line 3, with the following paragraph:

Fig. 2 illustrates the schematic drawings of the process to verify the data in D2 (19). This drawing includes a Server 21, which includes the DMUtility DMUTILITY 21U, as well as a disk subsystem 22, which includes a D2 disk (19). DMUTILITY program sends and receives data from the disk D2 (19). The verification process is to read the data from the disk D2 into the memory buffers of DMUTILITY 21U, and to process the CHECKSUM and ADDRESSCHECK verifications upon those memory buffers. The DMUTILITY program is a part of the Database System Software, and is used for many database related tasks. When the process is complete, a completion message is issued, and the rest of the commands are processed if there were no errors. IF there were errors during a RECOVER command with the VERIFY option, then there must be a manual acknowledgement of the error with a determination to instruct the DMUTILITY program to continue or quit.

9. Please replace the paragraph that begins on page 25, line 10, with the following paragraph:

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Fig. 3 is a schematic drawing of a DMSII data file and the types of information held therein. A DMSII Data file 30 exists with information such as data Blocks 32, and available space directory 34. A data Block block is actually a block of data, a block meaning a distinct location which holds one or more data records. A diagram of data block is shown in Fig. 4. The data stored in these data blocks represents the data stored by a user application in a format defined by the database structure in the DASDL specification.

10. Please replace the paragraph that begins on page 26, line 1, with the following paragraph:

Fig. 5 is a flowchart showing the steps involved to perform verification for a database copy such as D2 (19 of Fig. 1) marked as being in state of QUIESCE. The process begins at step A, labeled Verify Database. An inquiry is then made at step B to check if the database has been Quiesced. If the database has not been Quiesced, (NO) an error occurs at step BE, the error is reported and the process ends. If the database has been Quiesced, (YES) the task assignment is calculated (Step C) by setting up a table of all of the disk rows of all of the disk files specified to be verified. Next, a loop is performed to initiate independent processes until the number of independent tasks initiated is greater than the maximum number of tasks (Max) specified to complete the verification (STEPS D & E), each independent process being assigned a set of tasks from the task assignment table. The max is the value that is user settable with the optional VERIFYTASKS option. It should be noted that the default value is 1, and the maximum is 50. This value is used to process that number of Verify Tasks to perform the verification in parallel, thereby completing the Verification

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more quickly, but using more system resources. If the task is not greater than the max, the process returns to verify task process (Step D). If the task is greater than the max (Yes), this verify process will wait for completion of all of the independent process at step F, a report is printed (Step G), and the process ends at step H. It is important to note that the process is not considered complete until all of the processed Verify Tasks have all been completed. What is meant by Process a Verify Task is that the Verify Database part of the DMUTILITY program actually starts separately running tasks to independently perform the verification of data blocks. The separately running tasks (Step D of Fig. 5) are charted, and can be seen in further detail in Fig. 6, Verify Task. At this point, the system has accomplished a verification process, and since it is completed, there is a report and a message.